



25X1

ET-1 ELECTROWRITER TRANSMITTER

PROJECT NO. #2024

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TENTATIVE SPECIFICATION FOR
PORTABLE ELECTROWRITER TRANSMITTER
ET-1, Project No. #2024, Contract PSC-101

Nomenclature

The specifications contained herein apply to a Portable Electrowriter Transmitter capable of transmitting handwritten or handdrawn intelligence.

Operating conditions

Ambient temperature	- 10° C to + 50° C
Ambient relative humidity	95%
Duty	Intermittent

Electrical characteristics

Filament voltage	1.5 volts
Filament current	.350 amperes
"B" voltage	67.5 volts
"B" current	.010 amperes

Bandwidth requirements of transmission medium

The wire or radio link connecting the Portable Electrowriter Transmitter to the receiving terminal should be capable of transmitting audio frequencies from 300 to 2400 cycles.

Levels and impedances

Transmitting output impedance	600 ohms
Transmitting output level	.8V RMS max.

Paper

Supplied in pad form.

Size of pad	2 7/8" x 3 7/8"
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Writing surface~~SECRET~~

2 3/4" x 3 1/2"

~~SECRET~~Description of the portable Electrowriter

The device is capable of transmitting handwritten messages, and handdrawn sketches over either a wire or radio link to a standard Electrowriter receiving terminal where it is reproduced in its original form.

The motions of the writing stylus are transposed into signal frequencies, which in turn control the motions of a stylus at the receiving station, thus reproducing the original message.

In order to cover all points of a plane writing surface, two coordinate signals have to be transmitted. Motions of raising and lowering the stylus to and from the paper are controlled by a single frequency.

When ready for carrying, the writing surface folds onto the main housing to form a compact, completely enclosed cubicle package. The off-on switch is arranged so that when folded for carrying the batteries are automatically disconnected.

Mechanical characteristics

Dimensions, ready for writing 9 3/4" x 4 1/2" x 10 1/2"

Dimensions, folded for carrying 9 3/4" x 4 1/2" x 7 1/8"

Weight 10 lbs.

Material Aluminum castings, stampings, silicon, steel laminations. Coils wound with heavy Formex insulated wire.

Finishes Dull black baked enamel on outer housing; anodized aluminum surfaces; coils varnish impregnated and baked.

Recommended operating spares

200% tubes

12 pads of paper

1 stylus

1 output cable and plug

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Recommended base spares

100% of all mechanical and electronic components, except chassis and cabinets..

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